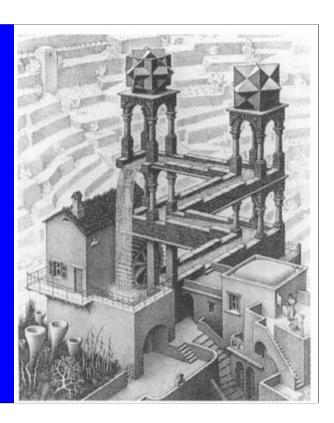
TMDL Workshop

Land Use
Analysis
for
Watershed
Planning



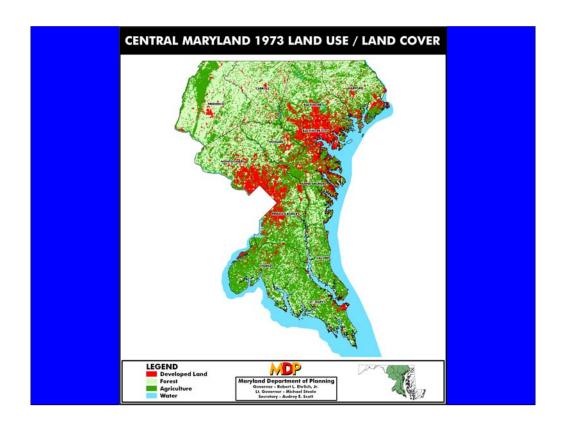


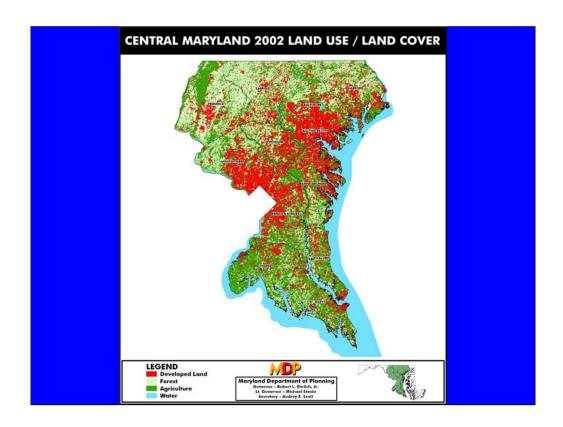
Watershed Planning: Land Use Matters! (i.e., the world isn't flat)



- Density
- Location
- Sewer vs. Septic
- Site Design and BMPs

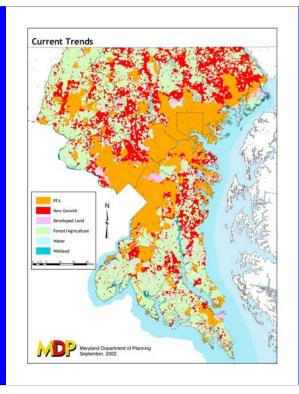


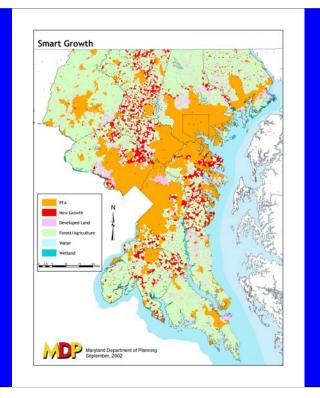




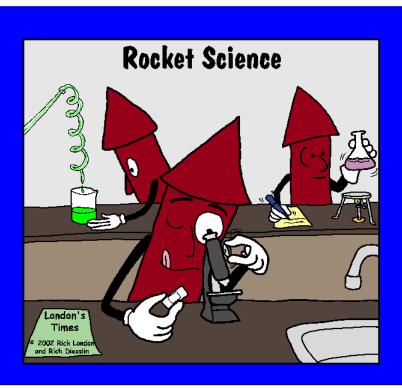
Where We're Headed?

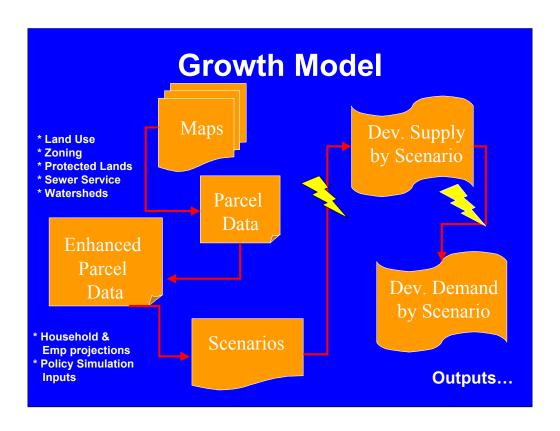












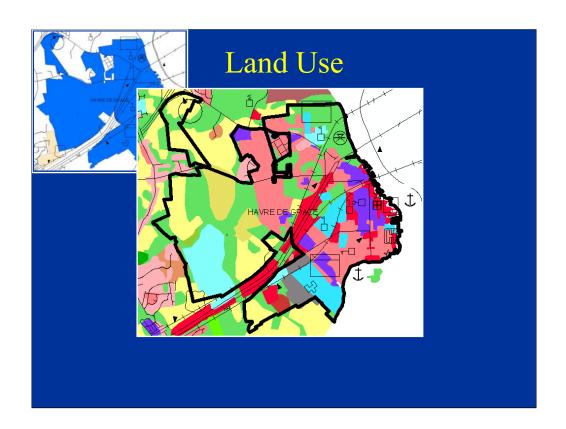
What goes into this work?

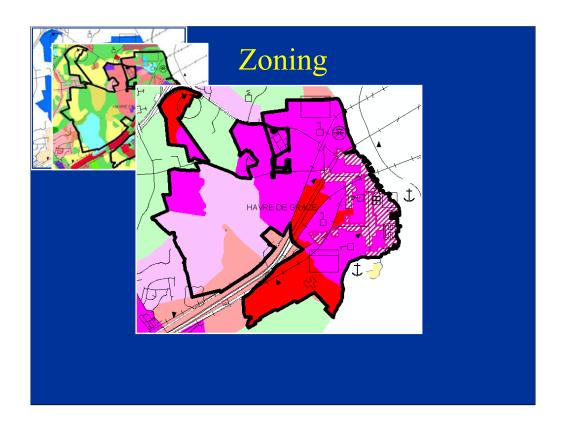
- MD PropertyView (parcel data)
- Aerial Photography
- Partnerships with Local Govs to get Data
- Data Development, Refinement, and Updating
- Geo-processing and Programming
- Growth Modeling
- State and Local Gov Planning Expertise
- Local Knowledge and Ground-truthing
- Hardware, Software, Training

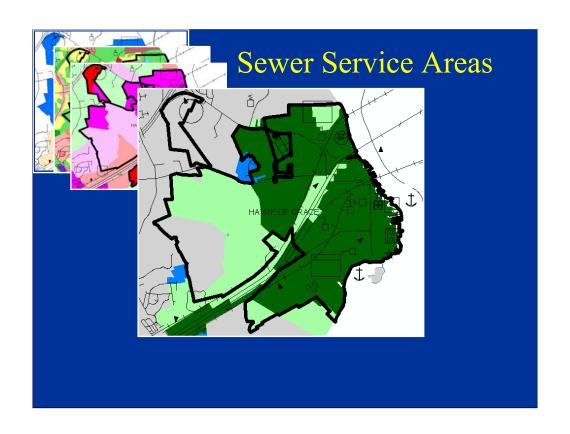
MDP's Approach Does Not Account For:

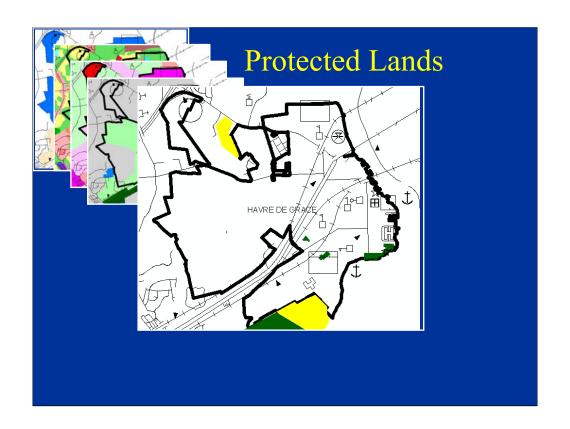
- Infrastructure capacity or permitting (APFO considerations);
- Much in the way of market considerations;
- All environmental constraints; nor
- NIMBYs.

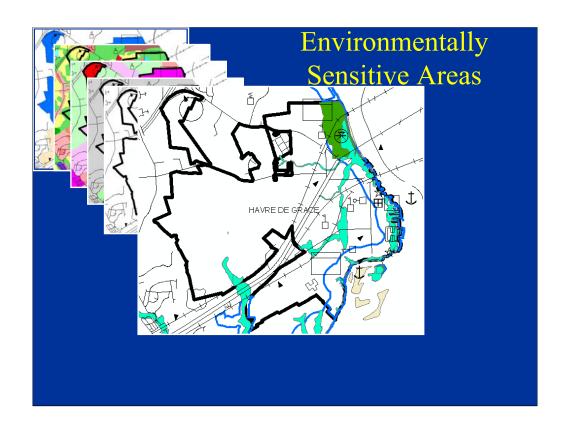
Define Study Area

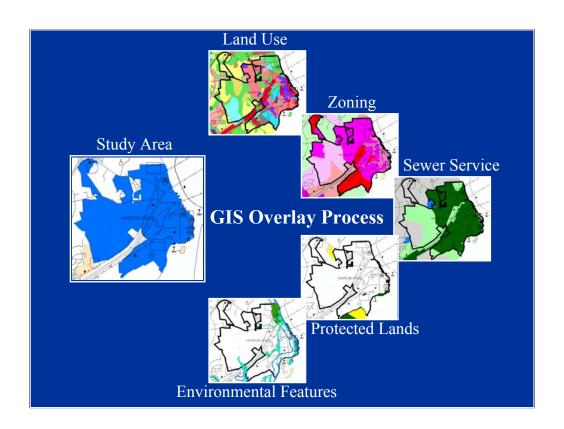










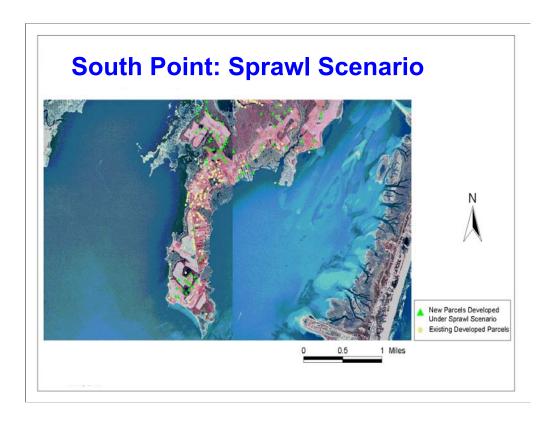






Example of sprawl development

South Point



Existing developed parcels in yellow, projected to develop under the Sprawl Scenario are in green.

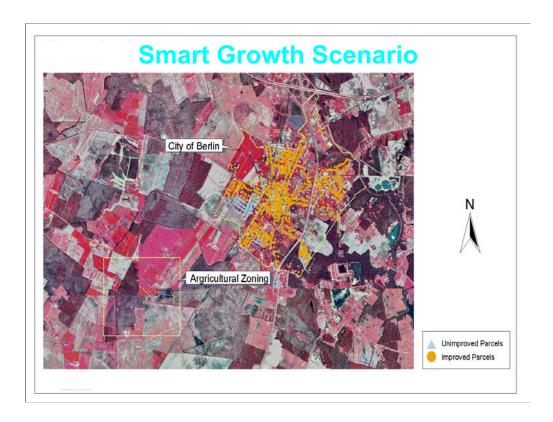
South Point (on the ground)



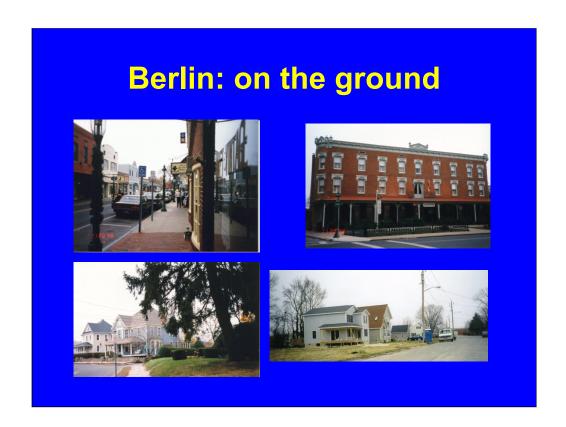




½ to 3 acre lots



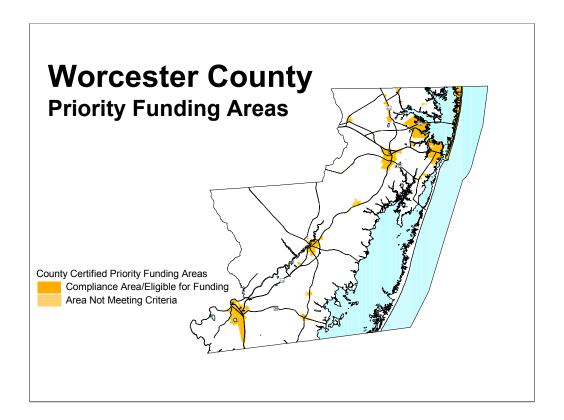
This air photo shows the Berlin area, with the town's developed and undeveloped parcel points highlighted. The town is mostly surrounded by the County ag zone. Note how development basically stops at the edge of town, forming an edge, as opposed to tapering off into the rural area. This is a good thing.

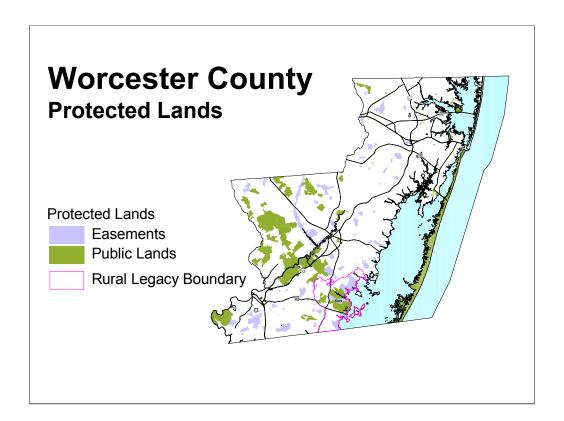


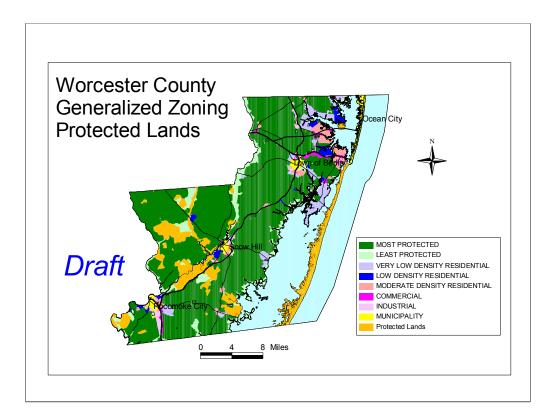
Pic simply showing the town. The pic on the lower right is new construction in the town.

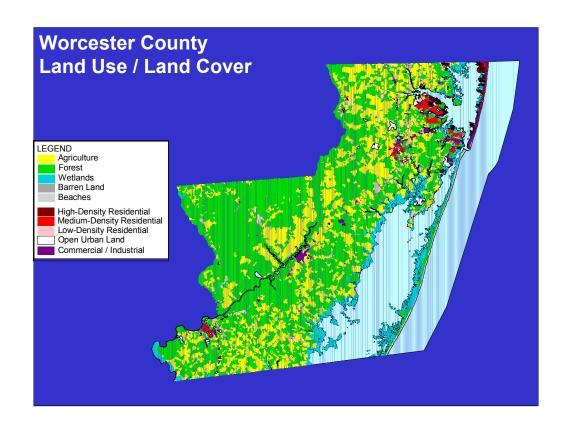


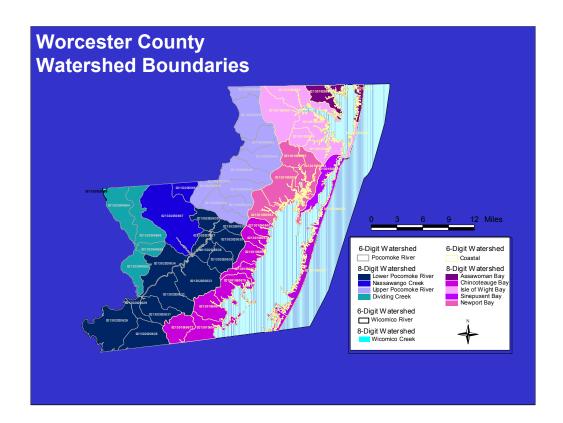
These two pictures illustrate the "edge" effect in Berlin. The top shows the southern edge of the town and how it stops at the agricultural land. The bottom pic shows another large farm just south of town.

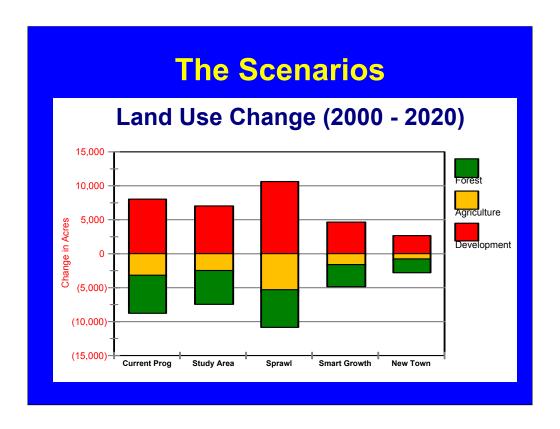




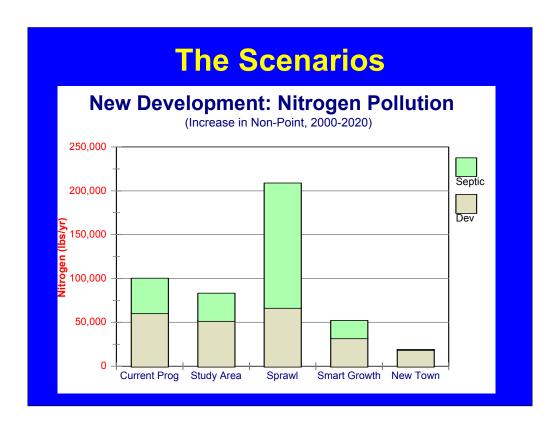








This bar chart shows CHANGE in land use projected to 2020. All 5 scenarios accommodated the same amount of development, just differently. Red is new development, green is loss of forest land, yellow is loss of agri land. While the New Town scenario showed the least amount land consumed for development, it is the most hypothetical scenario.



Again, the New Town looks "best", but it probably isn't too likely to happen, at least not completely the way it was modeled. It has no septic load because all new development would be on sewer. This graph only shows nonpoint source nitrogen. However, septic systems pollute much more per household then most of the sewer systems that are or will be in place in the County.

Does anyone but us think our analysis is worth a #&%\$?

- Development Capacity Task Force
- Requests for technical assistance
- Use in programmatic responsibilities
- Requests for the "model?"

If you're crazy enough to try this...

- Do your own
- Work with us...
- Either way, will need to account for:
 - existing growth;
 - future growth; and
 - land use and water quality impacts.
- Need accepted loading rates for land use categories and septic systems.